DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump NEMA Premium Product code: 14486221 Efficiency Three-Phase Catalog #: 02036OT3V254JP-W40 Frame : 254JP Locked rotor time : 21s (cold) 12s (hot) Output : 20 HP (15 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 200/400 V : 1000 m.a.s.l. Altitude Rated current : 55.9/27.9 A Protection degree : IP23 L. R. Amperes : 352/176 A Cooling method : IC01 - ODP LRC : 6.3x(Code G) Mounting : F-1 No load current : 19.3/9.66 A Rotation¹ : Both (CW and CCW) Rated speed : 3535 rpm Starting method : Direct On Line Slip : 1.81 % Approx. weight³ : 278 lb Rated torque : 29.7 ft.lb Locked rotor torque : 200 % Breakdown torque : 280 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.8718 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 90.0 91.0 Efficiency (%) 90.2 91.0 Max. traction Power Factor 0.48 0.82 0.72 0.85 Max. compression Non drive end Drive end Bearing type 6309 Z C3 6209 Z C3 Sealing Without Bearing Seal Without Bearing Seal Lubrication interval 20000 h 20000 h Lubricant amount 9 g 13 g Lubricant type Mobil Polyrex EM

Notes

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



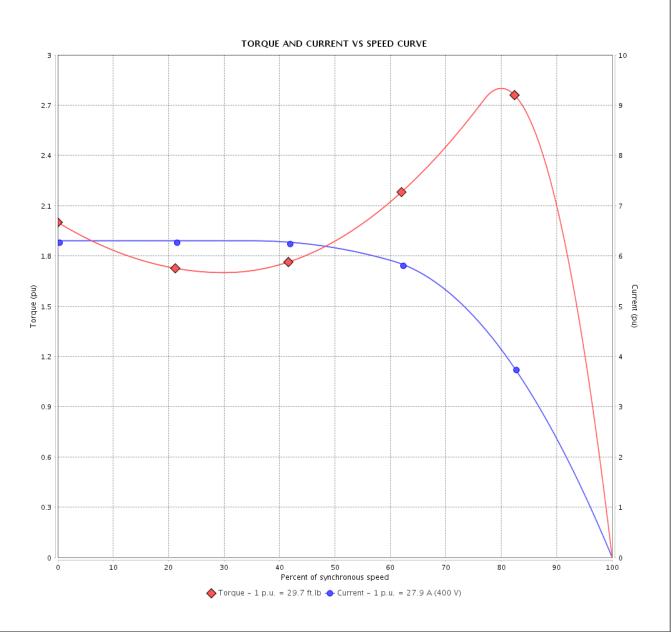
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486221

Catalog #: 02036OT3V254JP-W40



Performance : 200/400 V 60 Hz 2P Rated current : 55.9/27.9 A Moment of inertia (J) : 0.8718 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 29.7 ft.lb : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 3535 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



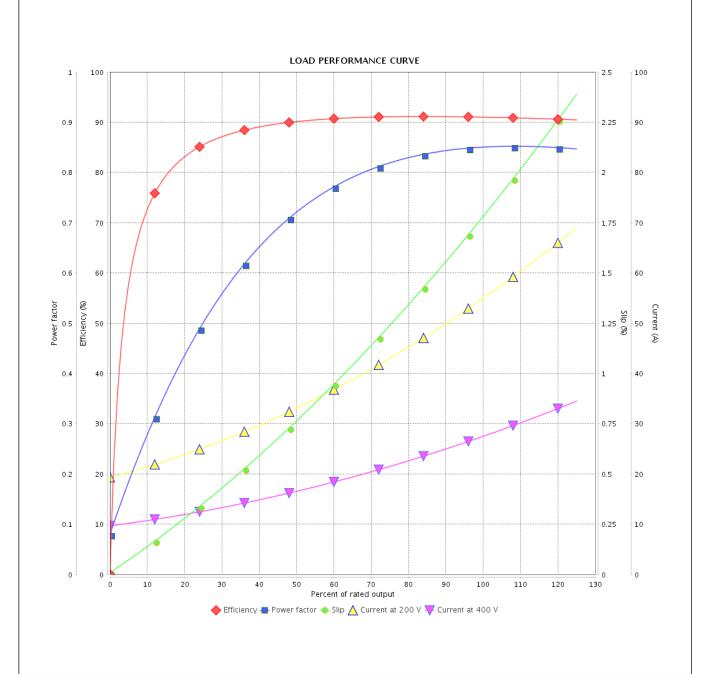
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486221

Catalog #: 02036OT3V254JP-W40



Performance	: 2	200/400 V 60 Hz 2P	·		·		
Rated current		5.9/27.9 A Moment of inertia (J)		: 0.8718 sq.ft.lb			
		5.3		Duty cycle			
Rated torque		9.7 ft.lb	• •	Insulation class		: Cont.(S1) : F	
Locked rotor torque		200 %	Service fa	Service factor		: 1.25	
Breakdown torqu		280 %	Temperati	Temperature rise			
Rated speed		3535 rpm Design		: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



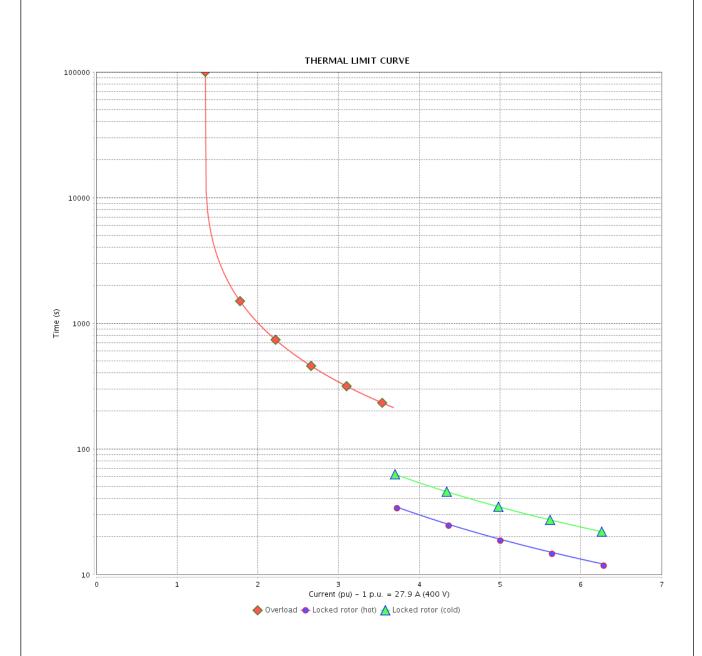
Customer		:				
D 1 1 1 1		W.O. ID E			4	
Product line		: W40 JP Pump NEMA Premium Efficiency Three-Phase		Product code :	14486221	
		,		Catalog # :	02036OT3V2	254JP-W40
Performance	:	200/400 V 60 Hz 2P				
Rated current LRC		55.9/27.9 A 6.3	Moment of Duty cycle	of inertia (J)	: 0.8718 sq.ft.l	b
Rated torque		29.7 ft.lb	Insulation		: Cont.(S1) : F	
Locked rotor tord		200 %	Service fa	actor	: 1.25	
Breakdown torqu Rated speed		280 % 3535 rpm	Temperate Design	ure rise	: 80 K : B	
Heating constan		•	- 3			
Cooling constant						
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



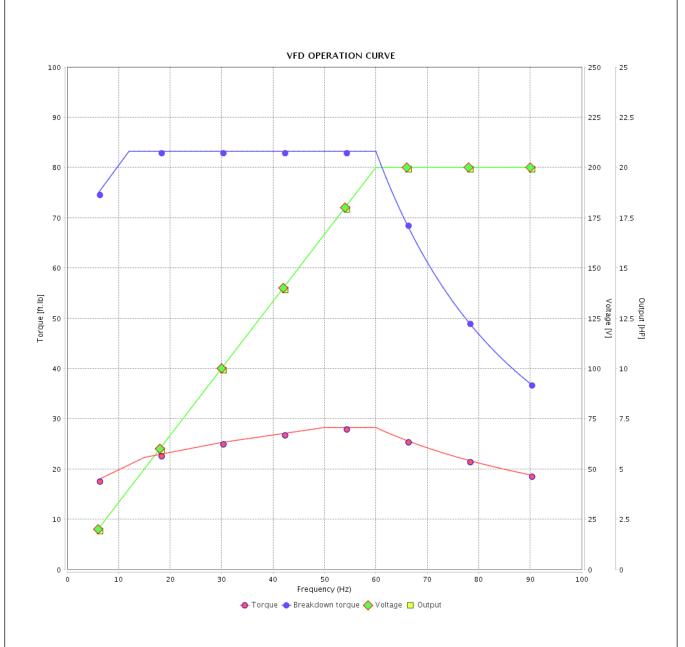
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486221

Catalog #: 02036OT3V254JP-W40



Performance	: 20	: 200/400 V 60 Hz 2P						
Rated current	: 5	5.9/27.9 A	Moment o	Moment of inertia (J)		.lb		
LRC		.3	Duty cycle	Duty cycle				
Rated torque		9.7 ft.lb	Insulation	Insulation class		:F		
Locked rotor tord	que : 20	00 %	Service fa	Service factor		: 1.25		
Breakdown torqu	ie : 28	80 %	Temperati	Temperature rise				
Rated speed	: 3	535 rpm	Design	Design				
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14/04/2022

Date

